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Attorney Docket No. OOMP0001C

U.S. Serial No. 09/735,586

**AMENDMENTS TO THE SPECIFICATION**

Please amend the specification as follows.

Page 3, paragraph [0011]:

[0011] The Adobe Acrobat Portable Document Format (PDF), and the PostScript™ layout language on which it is based, also provide mechanisms for including various procedures related to encryption and security. Adobe has also released some technology for managing and distributing secured documents using PDF. Adobe® PDF Merchant™ is server-based software that enables eBook and content providers to sell and distribute documents electronically with security. It is designed to integrate into existing eCommerce and transaction servers, making it easy for publishers, distributors, and retailers to encrypt volumes of Adobe Portable Document Format (PDF) files and sell them over the Web and provides mechanisms for Managing the distribution of electronic keys. Content owners can specify standard Acrobat permissions, including privileges for printing, changing the document, selecting text and graphics, and adding or changing annotations and form fields. Further information is available from <http://www.adobe.com/products/pdfmerchant/main.html>.

Page 6, paragraph [0024]:

[0024] A further understanding of the methods and systems disclosed can be had from the detailed discussion of specific embodiments below. For purposes of clarity, this discussion refers to devices, methods, and concepts in terms of specific examples. However, the methods and systems disclosed may operate in a wide variety of different applications. It is therefore intended that the scope of the disclosed inventions not be limited except as provided in the attached claims.

Page 8, please add:

Fig. 35 shows an alternative method for requesting a paid action.

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**Page 13, paragraph [0045]**

[0045] As shown in Figure 35, this specific embodiment commences when a user indicates an action for an indicated portion of information (Step C1). An action options dialog (in a specific embodiment one that is standard for the platform) appears (Step C2) and the user indicates the desired options (Step C3). Another dialog appears (Step C4) in which the user enters his/her identity for accounting purposes (name and password) (this step may be automated according to user preferences) (Step C5). The user's request and identity and the identifier for the indicated portion of information (document ID and page or word range) are sent to a server (Step C6). The server verifies the user's identity (Step C7) and calculates a price for the requested operation (Step C8) and returns that price to the client-side logic (Step C9). The ~~T~~he client-side logic determines whether the price will be accepted by the user (Step C10). If declined, the request is cancelled (Step C11). If accepted, all prior information is again transmitted to the server (Step C12) along with the agreed-upon price. The server again verifies all information (Steps C12 and C13) and verifies that the price presented to the user is correct (Step C14). If any verification step fails, the request is cancelled (Step C15). If verification succeeds, the server returns an acknowledgement to the client side logic (Step C16) which then processes the user's request by printing the indicated portion of the information (Step C17).

**Page 16, paragraph [0055]:**

[0055] Fig. 6 is a block diagram illustrating an example system and system components according to a specific embodiment. For purposes of explanation, components of the system, such as the security server 10, search engine 40, etc., are each shown as individual computing devices. It will be understood to those of skill in the art that this is a representation of one embodiment and that actual implementations can combine most or all of the server side functional

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components onto a single powerful system or can divide individual functional components on to multiple cooperating systems. Each of the components shown in this and other Figures, to the extent that it is not described in more specific detail herein, should be understood to represent logic components or logic devices that are well-understood in the art and are commercially available through third-party suppliers. The client side components include a computer 100 which includes a document viewer 110, in one embodiment, and can include a computer 150 including a web browser. On the server side, a web server 50 is provided as well as a security server 10 that includes document ID's and security keys 12. The security server receives a document ID15 and returns a security key 14. A search engine 40 is included that includes document indexes 42. A document server 20 includes document data bases 22. The document server receives submissions and performs document handling 23 and returns accounting information 24. A transaction server 30 receives an action request 33 and acceptance of a charge 34 and provides both charge information 35, and authorization information 36.

Page 25, paragraph [0092]

[0092] Referring now to Fig. 9, a preferred embodiment of the system that utilizes a low-resolution bitmap-image 904, visible to the user and a mapping-template 906, which may be invisible to the user 912 but contains information mapping the location of words or other points of interest on each page of the document 927, to provide the desired encryption function. The user 912 receives and may view the low-resolution bitmap-image 904 and utilizing information contained in the mapping-template 906, then select the locations of one or more words or objects on the low-resolution bitmap-image 904 as displayed, to facilitate, for example, highlighting desired objects in a manner similar to conventional word processing programs. The selected locations on the low-resolution bitmap-image 904 correspond to the mapping information contained in the mapping-template 906. The server then uses the selection of the one or more locations provided by the user, upon proper payment of fees if any, to provide high-resolution bitmap-images

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and/or text-representations of the selected objects or words to the user 912 for printing, copying or editing or other tasks. This facilitating secure encryption by providing only non-protected data to the user 912, the low-resolution bitmap-image 904 and mapping-template 906, prior to completing activating transaction 929 927 to facilitate transmission of protected data 930.

Page 25, paragraph [0093]

[0093] In particular, system 900 includes server 902, which sends low-resolution bitmap-image file 904 and mapping-template file 906 to client 908 via a network such as the Internet 940. User 912 while viewing monitor 914 is able to view low-resolution bitmap-image file 904 and interact with the displayed low-resolution bitmap-image 904 by, for example, by highlighting an object 946 on a page 948 of a document 927, represented by low-resolution bitmap-image 904 to select the object, 946 which may include one or more words. This viewing is facilitated through a browser/plugin combination 931. Client side software 918 detects the highlighting performed by user 912 and sends selection information 920, corresponding to the location on the displayed bitmap-image of the object 946 to server 902. Server 902, upon receipt of the selection of the object 946 by user 912, and/or payment or confirmation of permitted access by user 912, sends high resolution bitmap-image 922 or text-representation 923 of the selected object 946 to client 908 for printing, copying, editing, saving or other permitted operations by user 912.

Page 26, paragraph [0094]

[0094] In this manner, protection of high-resolution bitmap-images such as a bitmap-image 922 and the text-representation 923 contained therein is accomplished because only the low-resolution bitmap-image 904 is available to the user 912 until proper payment or other authorization is confirmed. Although mapping-template 906 is also sent to client 908 for use by user 912, the information contained in mapping-template 906

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is related only the location of objects on specific pages of low-resolution bitmap-image file 904, but does not indicate the content at such locations.

Page 26, paragraph [0095]

[0095] Beyond the fundamental advantages of the system\_900's ability to deliver PDF documents in a secure manner, the system design allows for the delivery of other document formats in the same manner, for example (but not limited to) HTML, XML, ASCII text, MS Word documents and other word processing documents. Any document on a computer including multimedia formats such as graphics, audio and/or video, is a candidate for delivery under the auspices of this system. System 900 may also be used as an integrated version control for documents.

Page 27, paragraph [0098]

[0098] Referring now to Fig. 10, system 900 may be improved by the addition of mapping optimization software devices 930 to make the selection process more intuitive to user 912, for example, by simulation the operations of a word processor so that multiple objects selected appear as a continuously selected or highlighted region in a left to right, top to bottom manner as is indicated by natural reading order. For example, in Fig. 11, user 912 may use a pointing device, such as a mouse 926, to select the first few lines of text appearing on low-resolution bitmap-image 904, but due to the multi-column layout of the image, receive a non-intuitive selection of words, represented by the selected text contained in the first column and 928 & the second column 929, rather than just the first column 928. The intuitive and desired result is shown in Figure 12.

Page 27, paragraph [0099]

[0099] In a further embodiment for these mapping optimization software devices 933 930, we are also developing applications of these technologies for utilization outside the context of the overall system 900 to allow for the same facilities to be made available in a

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stand-alone context such as when displaying PDF files in alternate consumer-off-the-shelf (COTS) applications such as Adobe Acrobat and Adobe Document Server. Thus enhancing the utility of these COTS applications.

Page 27, paragraph [0100]

[0100] Mapping optimization device 930 933 may include software for providing mapping optimization by normalizing, columnizing and regionizing in order to permit selection of text to work as expected in order to select words in their nature order.

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**ABSTRACT**

Methods and systems for analyzing an image, such as a newspaper or magazine page ~~page~~ or the like including text by mapping the image to determine regions of text and analyzing portions of the image in accordance with characteristics of selected regions of the text to develop a desired ordering of at least the selected regions in accordance with a textual relationship between the selected regions. The desired order may be related to the order in which the selected regions, and or words therein, are to be presented in a different format appropriate for a specific use, such by a human reader, for transferring the text over a network, for use in a database or by a search function, word processor or printer. Normalizing, columnizing, regionalizing, frameset building and article tracing functions may be used to develop the desired order in related regions in an article within the image.